

Appln No. 10/573,230
Amdt date January 18, 2011
Reply to Panel Decision of November 18, 2010 and Office Action of July 8, 2010

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1-4. (Canceled)

5. (Currently amended) A sustained release pheromone formulation ~~comprising~~ consisting of:

an insect-derived pheromone or a synthesized pheromone having the same molecular structure as the insect-derived pheromone; and

a substrate for containing the pheromone consisting essentially of a calcined crystalline mineral[[,]] prepared by steps consisting essentially of firing a crystalline mineral selected from the group consisting of clay minerals of a multiple-chain structure type having a fibrous form, 2:1 clay minerals having a tabular form, and silicas, at 500 to 700°C for a time period of from 5 to 120 minutes.

6. (Previously presented) The sustained release pheromone formulation according to claim 5, wherein said crystalline mineral is a crystalline clay mineral.

7. (Previously presented) The sustained release pheromone formulation according to claim 5, wherein said pheromone is a natural pheromone and/or a synthetic pheromone.

8. (Previously presented) The sustained release pheromone formulation according to claim 6, wherein said pheromone is a natural pheromone and/or a synthetic pheromone.

9. (Previously presented) The sustained release pheromone formulation according to claim 5, wherein the pheromone content is 1 to 30 mass % relative to the total mass of said crystalline mineral and said pheromone.

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10. (Previously presented) The sustained release pheromone formulation according to claim 6, wherein the pheromone content is 1 to 30 mass % relative to the total mass of said crystalline mineral and said pheromone.

11. (Previously presented) The sustained release pheromone formulation according to claim 7, wherein the pheromone content is 1 to 30 mass % relative to the total mass of said crystalline mineral and said pheromone.

12. (Previously presented) The sustained release pheromone formulation according to claim 8, wherein the pheromone content is 1 to 30 mass % relative to the total mass of said crystalline mineral and said pheromone.

13. (Previously Presented) The sustained release pheromone formulation according to claim 5, wherein the crystalline mineral is one selected from the group consisting of sepiolite, palygorskite and montmorillonite.

14. (Previously Presented) The sustained release pheromone formulation according to claim 7, wherein the crystalline mineral is one selected from the group consisting of sepiolite, palygorskite and montmorillonite.

15. (Previously Presented) The sustained release pheromone formulation according to claim 9, wherein the crystalline mineral is one selected from the group consisting of sepiolite, palygorskite and montmorillonite.

16. (Previously Presented) The sustained release pheromone formulation according to claim 11, wherein the crystalline mineral is one selected from the group consisting of sepiolite, palygorskite and montmorillonite.

17. (Previously Presented) The sustained release pheromone formulation according to claim 5, wherein the time period is from 30 to 60 minutes.

18. (Previously Presented) The sustained release pheromone formulation according to claim 6, wherein the time period is from 30 to 60 minutes.

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19. (Previously Presented) The sustained release pheromone formulation according to claim 9, wherein the time period is from 30 to 60 minutes.

20. (Previously Presented) The sustained release pheromone formulation according to claim 10, wherein the time period is from 30 to 60 minutes.

21. (Previously Presented) The sustained release pheromone formulation according to claim 11, wherein the time period is from 30 to 60 minutes.

22. (Previously Presented) The sustained release pheromone formulation according to claim 12, wherein the time period is from 30 to 60 minutes.

23. (New) A sustained release pheromone formulation consisting essentially of:

an insect-derived pheromone or a synthesized pheromone having the same molecular structure as the insect-derived pheromone; and

a substrate for containing the pheromone consisting of a calcined crystalline mineral prepared by steps consisting essentially of firing a crystalline mineral selected from the group consisting of clay minerals of a multiple-chain structure type having a fibrous form, 2:1 clay minerals having a tabular form, and silicas, at 500 to 700°C for a time period from 5 to 120 minutes.

24. (New) A sustained release pheromone formulation consisting of:

an insect-derived pheromone or a synthesized pheromone having the same molecular structure as the insect-derived pheromone;

a substrate for containing the pheromone consisting of a calcined crystalline mineral prepared by steps consisting essentially of firing a crystalline mineral selected from the group consisting of clay minerals of a multiple-chain structure type having a fibrous form, 2:1 clay minerals having a tabular form, and silicas, at 500 to 700°C for a time period from 5 to 120 minutes; and

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at least one reagent selected from the group consisting of an antioxidant, a UV absorber, and an organic solvent.